

FIG. 1

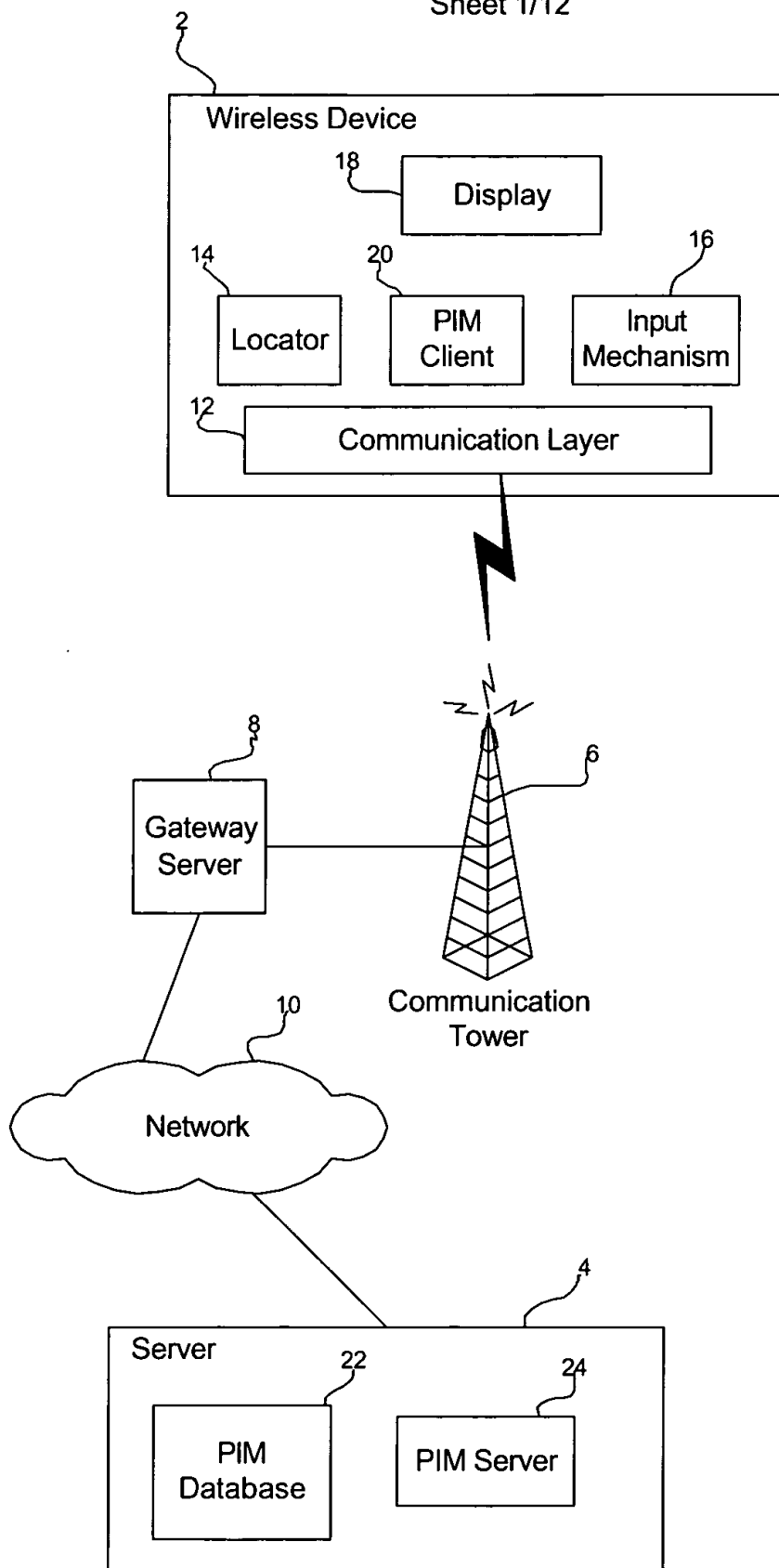
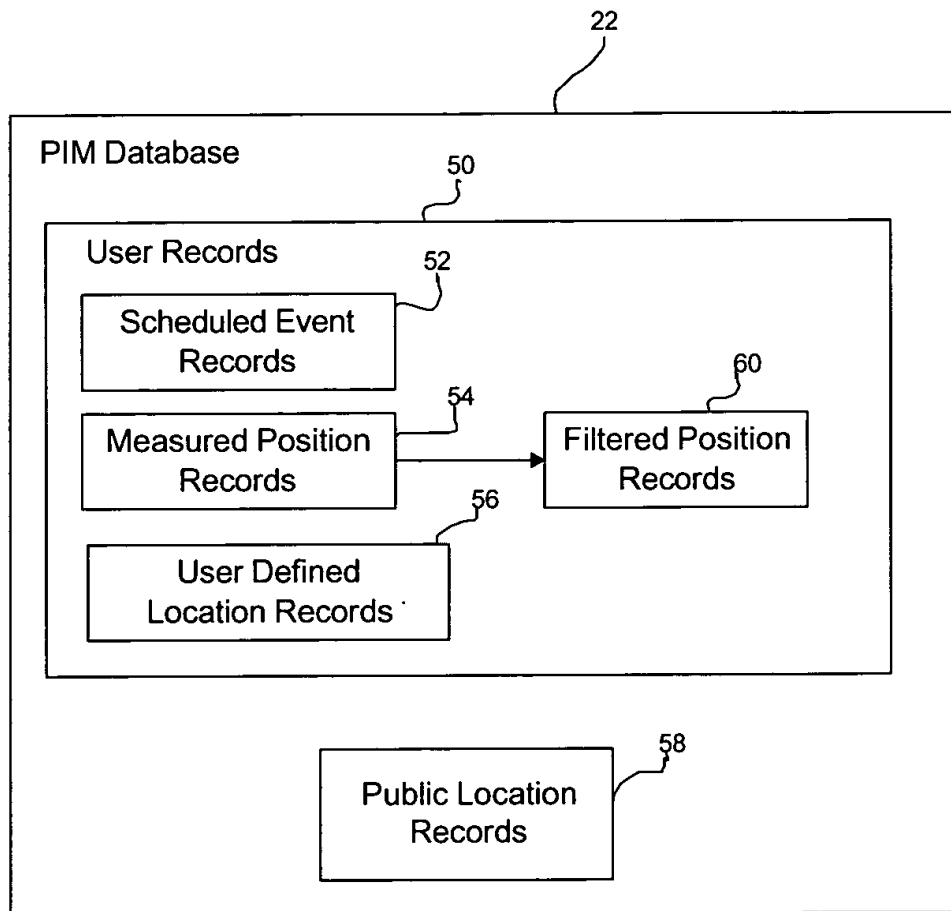


FIG. 2



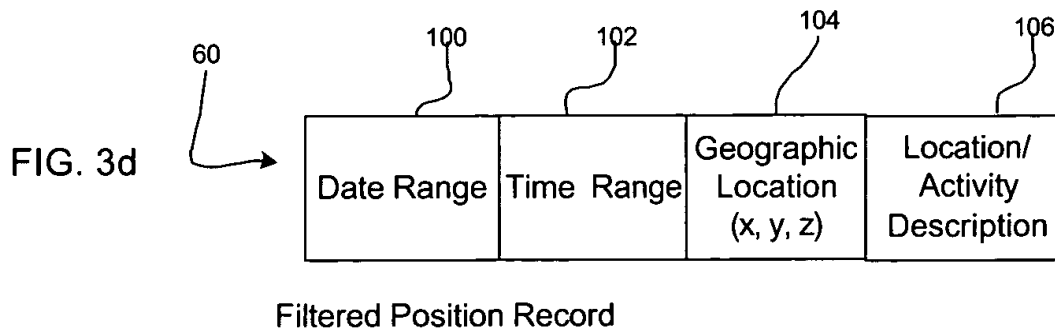
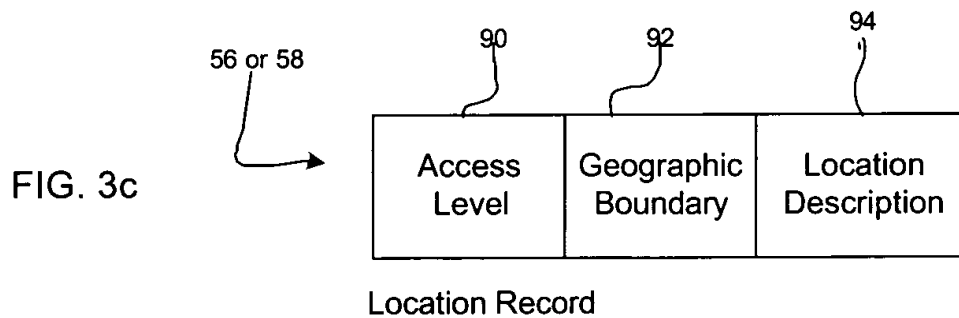
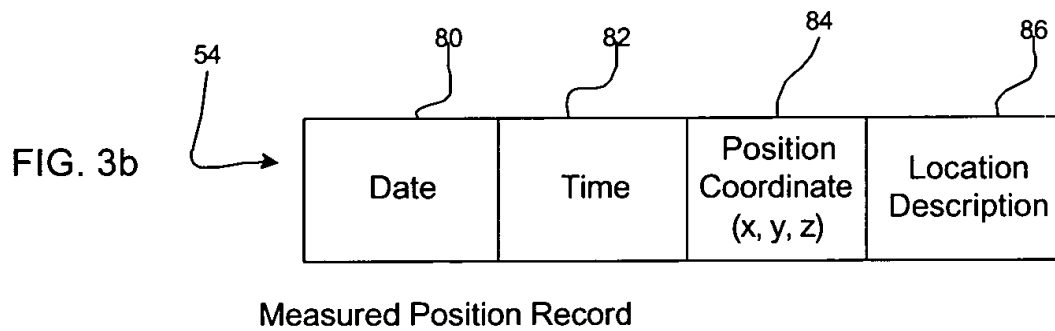
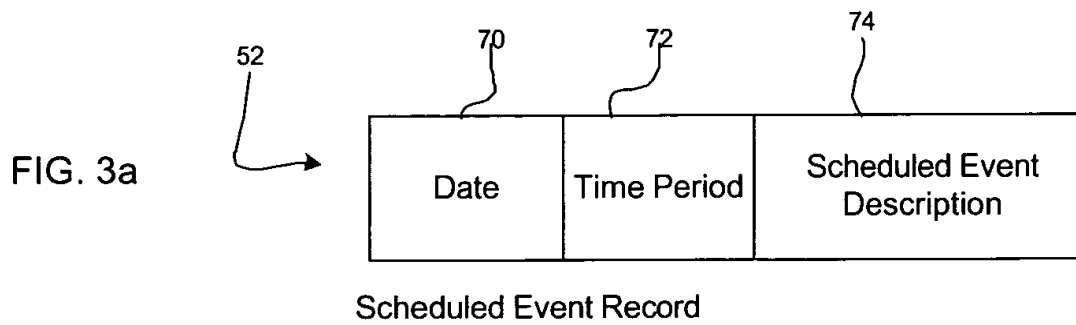


FIG. 4

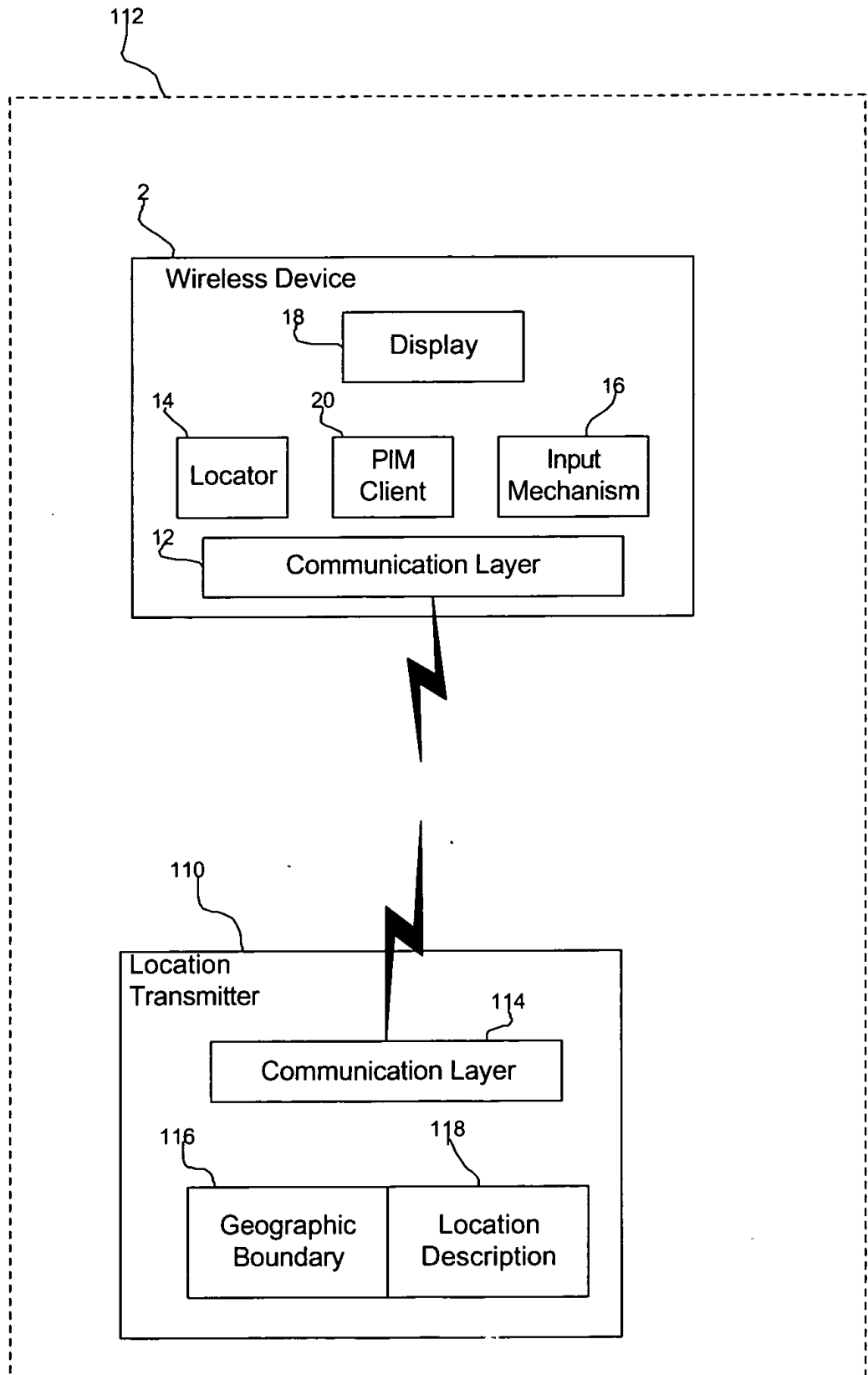


FIG. 5

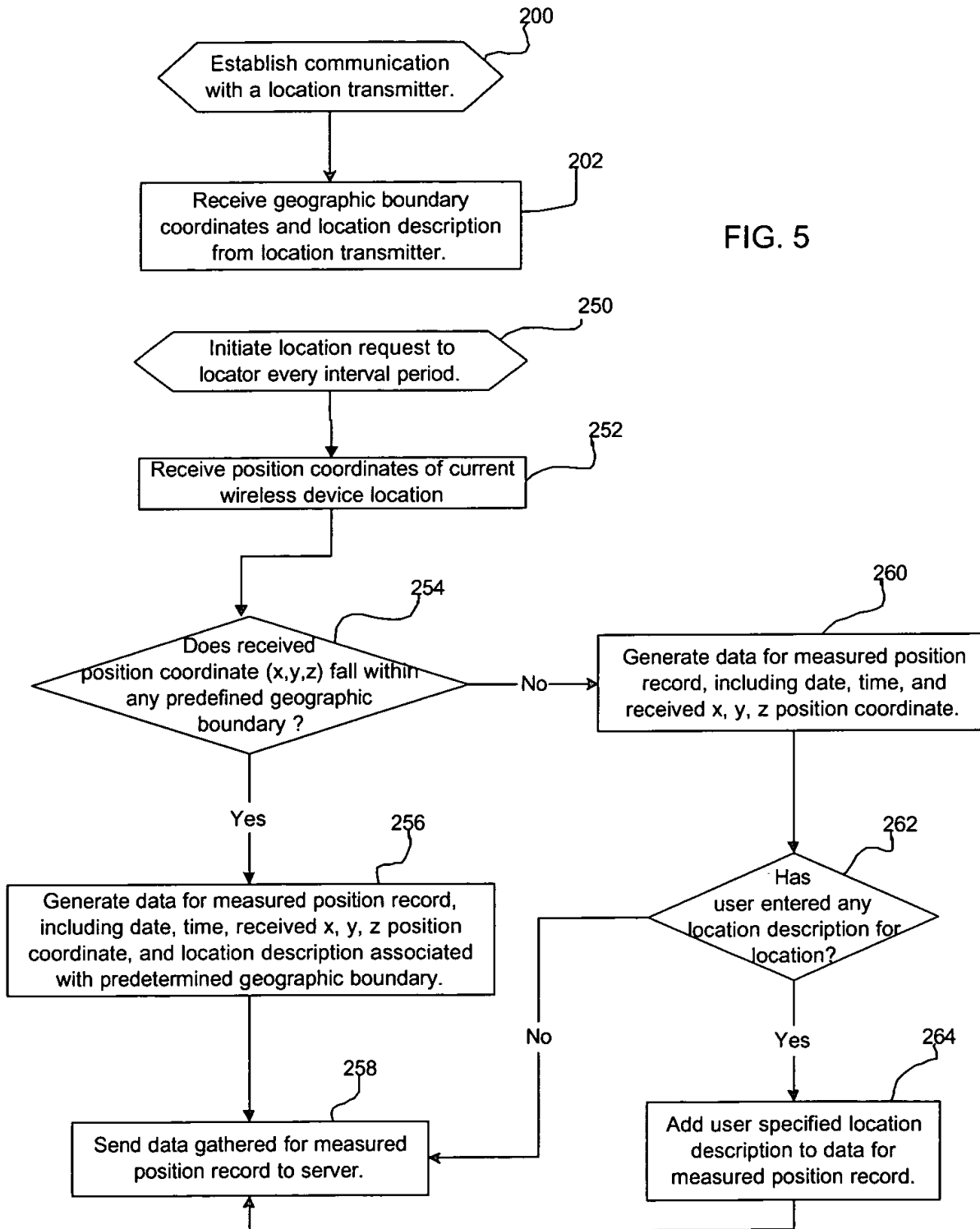


FIG. 6

FIG. 6

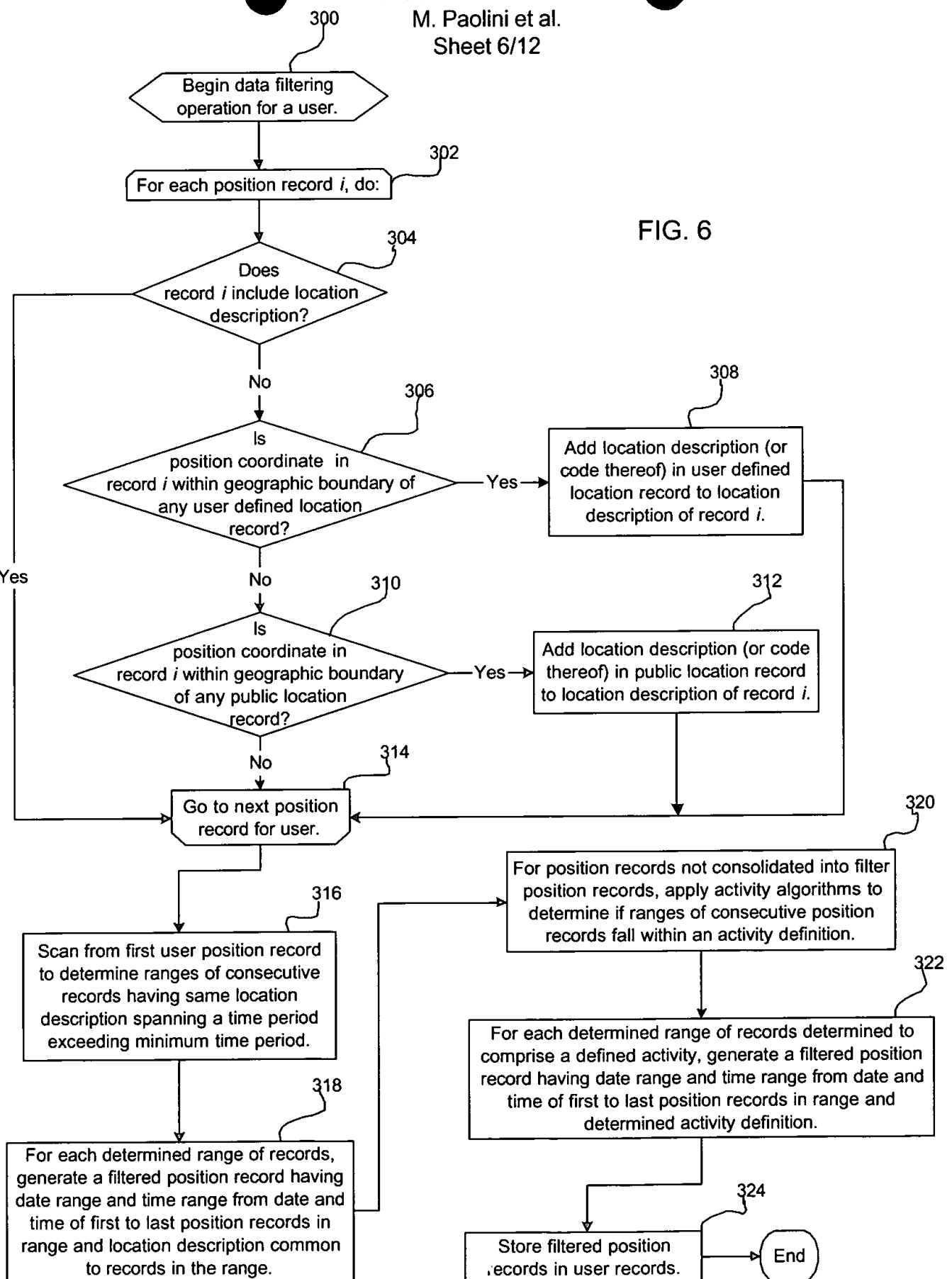


FIG. 7

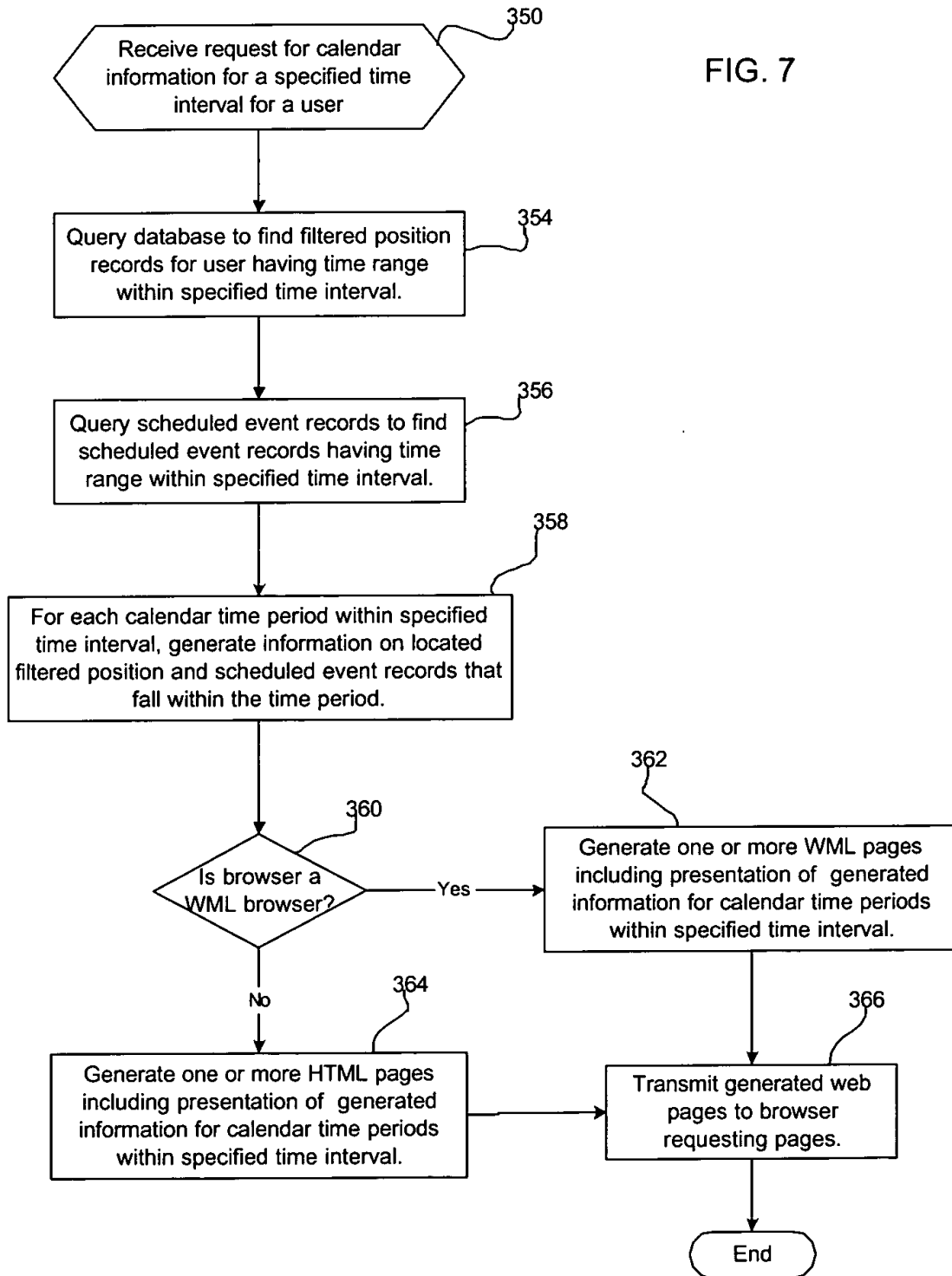


FIG. 8

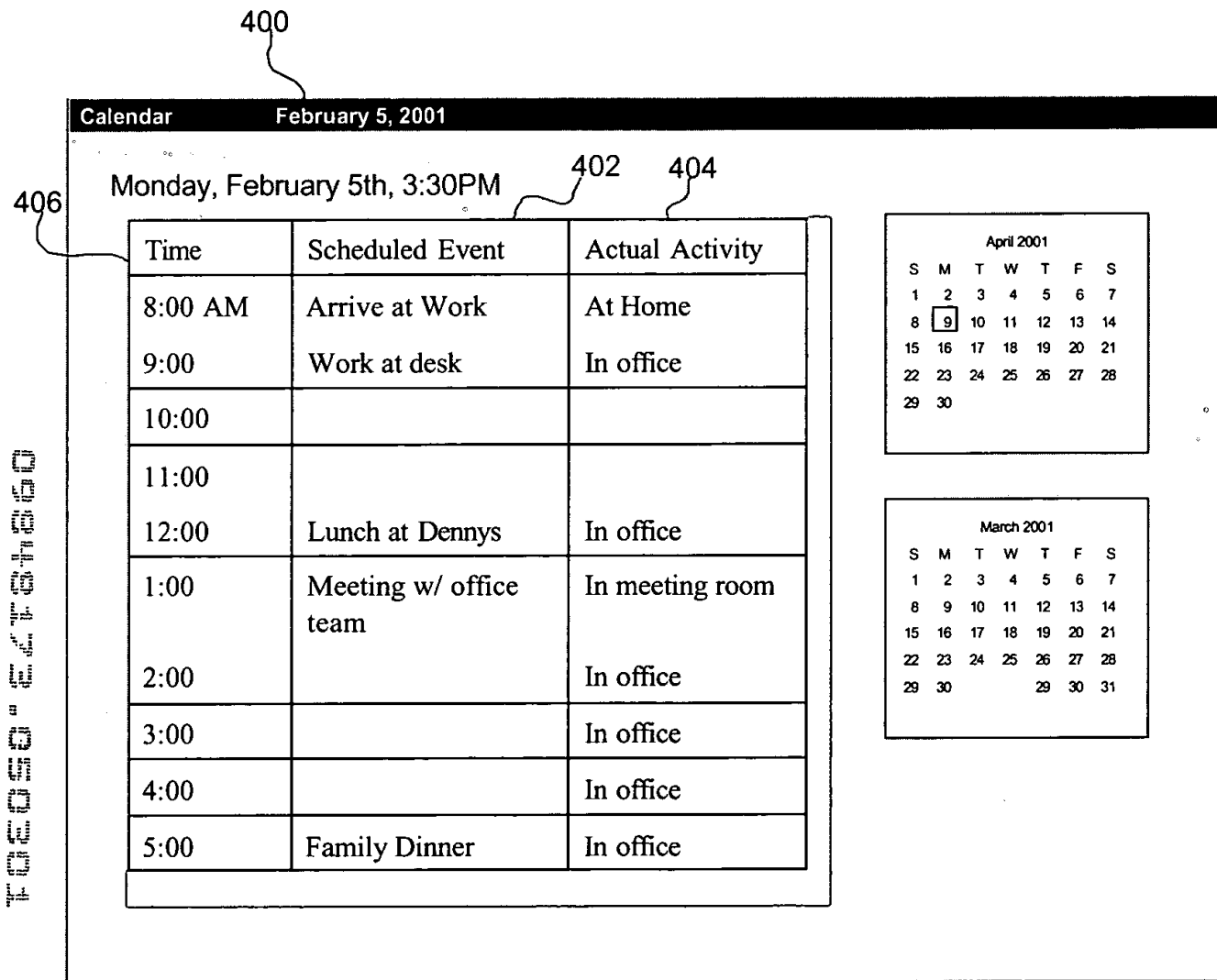


FIG. 9a

April 2001						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

FIG. 9b

Mon., Feb. 5th		
Time	Scheduled	Actual
8:00 AM	Arrive at Work	At Home
9:00	Work at desk	In office
10:00		
More ↓		

FIG. 10

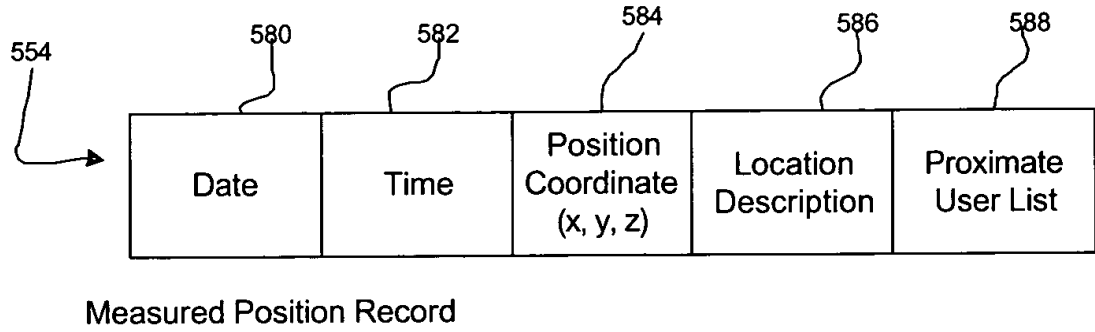
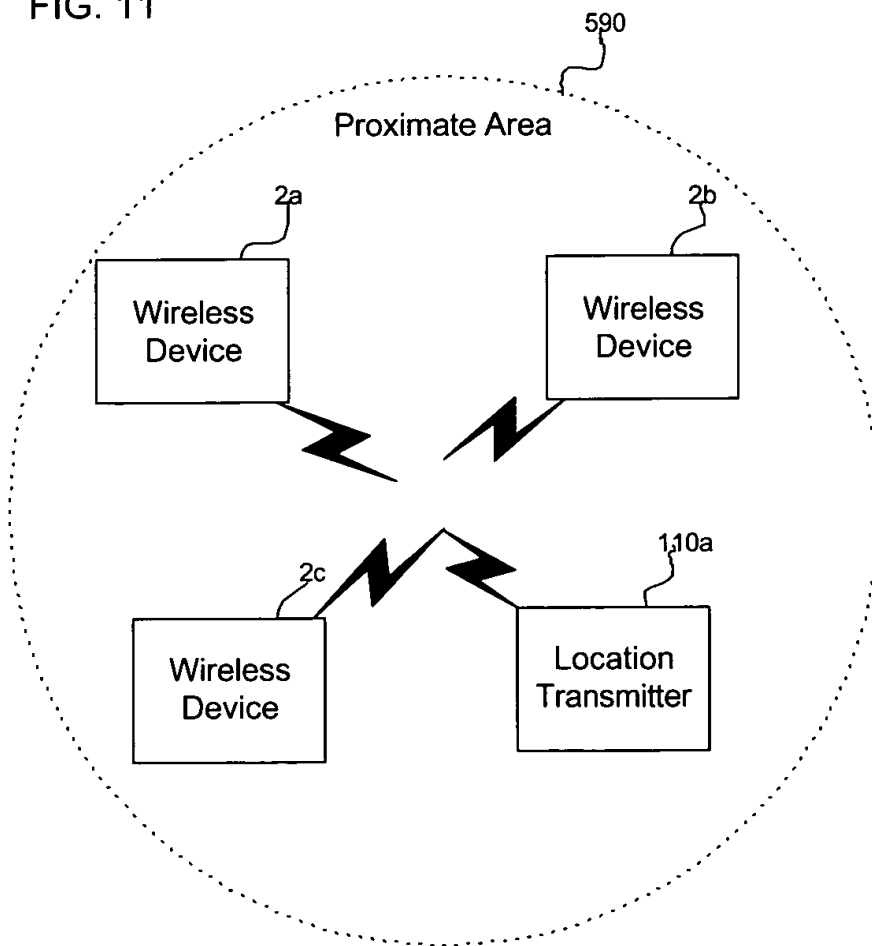


FIG. 11



600

From the NO branch of block 314, begin process to gather location description information from proximate devices monitored in PIM server.

Does proximate user list for record i include one or more device IDs?

602

620

Yes

604

For each ID j in proximate user list, do:

606

Query the filtered position records in the user records for ID j to determine if the date, time, and position coordinate of position record i falls within the date and time ranges and is geographically proximate to the geographic location of one filtered position record.

Does one filtered position record having a location description satisfy search criteria?

608

Yes

Add location description (or code thereof) in located filtered or measured position record for ID j to location description of record i .

610

No

614

Search the measured position records in the user records for ID j to determine if the position coordinate of position record i is geographically proximate to the position coordinate of one measured position record for ID j .

Yes

Go to block 314 in FIG. 6 to consider next position record i .

612

Does one measured position record having a location description satisfy search criteria?

616

No

618

Go back to block 604 to consider next ID j in list.

Go to block 630 in FIG. 13.

620

FIG. 12

FIG. 13

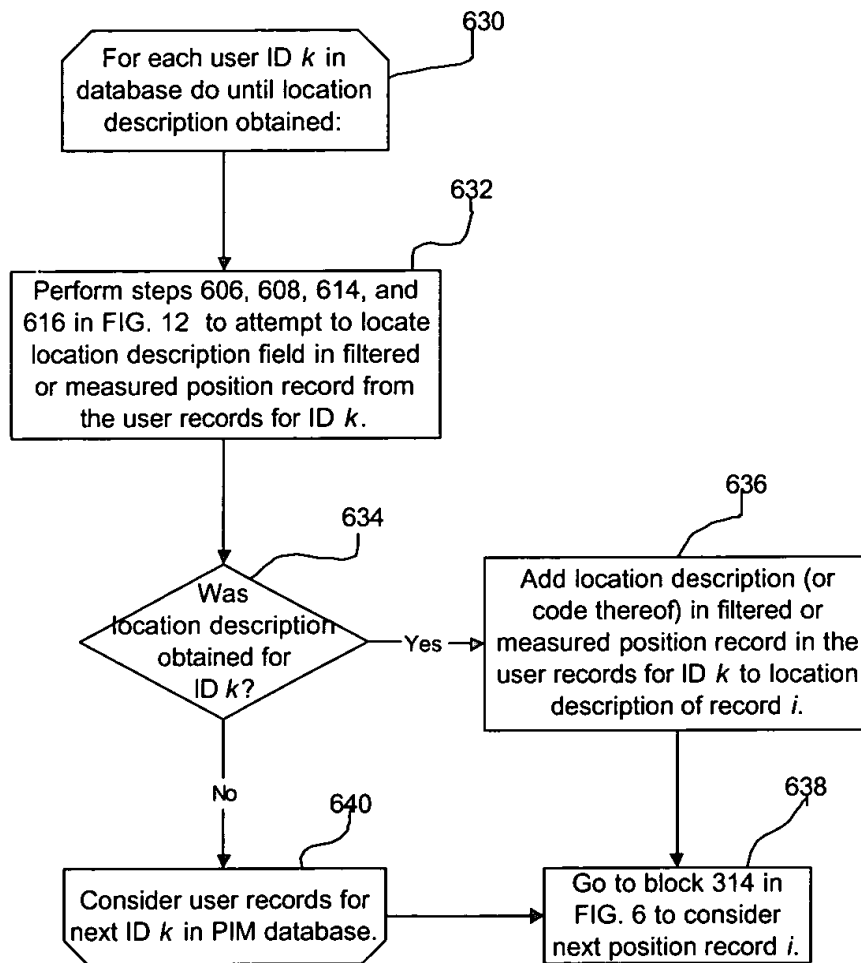


FIG. 13